CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Additional Development works to Telugu School in Chowdeshwari Ward No.02

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	4 set /31-50 cum	45.1	8	8
9	RCC(M20)	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.34	2	2

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10	RCC(M25)	Compressive Strength(7days and 28days)	3 set /16-30 cum	19.45	6	6
11	RCC(M25)	Compressive Strength(7days and 28days)	4 set /31-100 cum	4.88	8	8
12	RMC(M25)	Compressive Strength(7days and 28days)	2 set /6-15 cum	10.64	4	5
13	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
14	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

AE2

A.E.E

AE 2

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-05-17-10 **Date: 05-08-21**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP,
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri B.B Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT-10/W O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-08-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

AE-2

A.E.E

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.28	-
2	Finess by Air permeablity method (m^2/kg,Min)	274.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	-
4	Standard Consistency (%)	29%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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Authorized Signatory
Technical Manager

AE-02

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-05-17-10 **Date: 31-08-21**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	03-08-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-05-17-10** **Date: 05-08-21**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-08-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-08-21

A.E.E

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	342	342	2.3	97.7	90-100
3	20 mm	5439	5781	38.5	61.5	30-70
4	10 mm	4579	10360	69.1	30.9	10-35
5	4.75 mm	4260	14620	97.5	2.5	0-5
6	Pan	380	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-05-17-10 **Date: 05-08-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.21	–

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Authorized Signatory
Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-05-17-10** **Date: 04-08-21**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-08-21

A.E.E

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	214	214	4.3	95.7	90-100
3	10 mm	2435	2649	53.0	47.0	25-55
4	4.75 mm	2134	4783	95.7	4.3	0-10
5	Pan	217	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-05-17-10** **Date: 04-08-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

A.E.F

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-05-17-10** **Date: 04-08-21**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-08-21
Total weight taken	:	1000 grams

AE-2
A.E.E

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	133	215	21.5	78.5	60-95	75-100	85-100	95-100
4	1.18 mm	179	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	186	580	58.0	42.0	15-34	35-59	60-79	80-100
6	300 micron	173	753	75.3	24.7	5-20	8-30	12-40	15-50
7	150 micron	156	909	90.9	9.1	0-10	0-10	0-10	0-15
8	Pan	91	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

AE-02

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-05-17-10** **Date: 04-08-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	0.21	–
2	Specific Gravity	1.58	–
3	Material finer than 75 micron(%)	7.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-05-17-10** **Date: 19/08/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-21
Customer ID	:	SSM Course Below G L
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	19/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	SSM Course Below G L	M20	12/08/2021	19/08/2021	149.59 X 150.55 X 151.24	22521	8.817	426.4	18.9	18.4
2	SSM Course Below G L	M20	12/08/2021	19/08/2021	151.72 X 149.98 X 150.88	22754	9.096	416.8	18.3	
3	SSM Course Below G L	M20	12/08/2021	19/08/2021	151.68 X 149.04 X 151.67	22607	8.198	408.8	18.1	

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-17-10 Date: 09/09/2021

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Additional Development works to Telugu School in Chowdeshwari Ward No.02

Agency : Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-08-21

Customer ID : SSM Course Below G.L

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	SSM Course Below G.L AE.E	M20	12/08/2021	09/09/2021	150.43 X 149.34 X 149.76	22465	8.260	526.5	23.4	22.9
2	SSM Course Below G.L	M20	12/08/2021	09/09/2021	150.98 X 149.86 X 149.75	22626	8.354	501.3	22.2	
3	SSM Course Below G.L	M20	12/08/2021	09/09/2021	149.14 X 150.64 X 149.55	22467	8.487	521.2	23.2	

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	CP-2022-05-17-10 **Date: 21-10-21**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-21
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	18-10-21
Total weight taken	:	1000 grams

A.E.E

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	28	28	2.8	97.2	90-100
3	1.18 mm	235	263	26.3	73.7	70-100
4	600 micron	244	507	50.7	49.3	40-100
5	300 micron	198	705	70.5	29.5	5-70
6	150 micron	221	926	92.6	7.4	0-15
7	Pan	74	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2022-05-17-10** **Date: 21-10-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.48	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	10.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.92	–
5	Loose Bulk Density (Kg/litre)	1.78	–

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Technical Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-05-17-10** **Date: 22-10-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.38	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	8.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

AE-2

A.E.E

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Authorized Signatory
Technical Manager

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TEST REPORT OF CERAMIC TILES

Lab ID	:	CP-2022-05-17-10 **Date: 29-10-21**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-10-21
Sample Type/ Size	:	Ceramic tiles (300X300)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2019, IS 15622:2018
Date of test	:	23-10-21

AE-2
A.E.E

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	6.04	6.01	6.08	6.04
2	300	300	300	300	6.01	6.07	6.01	6.01
3	300	300	300	300	6.03	6.05	6.06	6.03
4	300	300	300	300	6.06	6.05	6.08	6.06
5	300	300	300	300	6.08	6.06	6.05	6.08
6	300	300	300	300	6.03	6.07	6.07	6.07
7	300	300	300	300	6.08	6.05	6.08	6.07
8	300	300	300	300	6.02	6.05	6.04	6.05
9	300	300	300	300	6.04	6.04	6.02	6.04
10	300	300	300	300	6.04	6.01	6.05	6.04
Average	300		300		6.05			

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2022-05-17-10 Date: 08-10-21
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-10-21
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1 Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	04-10-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	199	201	16000	33.203	2075.2	2015.0	Not less than 1800Kg/m^3
2	401	198	200	15880	31.844	2005.4		
3	401	198	199	15800	31.040	1964.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.52	4.12	4.08	Shall not be more than 10% by mass
2	33.57	32.04	4.58		
3	33.44	32.26	3.55		

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Lab ID : CP-2022-05-17-10 Date: 08-10-21

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	202	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	404	199	201	
3	401	200	202	
4	403	200	199	
5	402	202	200	
6	402	200	201	
7	401	202	202	
8	402	202	200	
9	402	202	201	
10	400	202	200	
11	401	200	202	
12	404	200	203	
13	401	202	201	
14	400	201	202	
15	403	199	200	
16	401	201	203	
17	401	199	199	
18	404	202	202	
19	401	200	201	
20	402	201	202	
Average of 20	402	201	201	

A.E.E

AE-02

CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : CP-2022-05-17-10 **Date: 08-10-21**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	202	81000	418.5	5.2	5.1
2	404	199	80434	411.8	5.1	
3	401	200	80142	409.7	5.1	
4	403	200	80457	417.5	5.2	
5	402	202	81088	417.4	5.1	
6	402	200	80306	415.9	5.2	
7	401	202	81135	416.2	5.1	
8	402	202	81399	410.7	5.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

• The Results Obtained are Satisfactory as per Standard Requirements

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2022-05-17-10 Date: 08-10-21
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-10-21
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1 Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	04-10-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	399	99	200	7900	16.525	2091.7	2005.5	Not less than 1800Kg/m^3
2	401	99	198	7860	15.396	1958.6		
3	400	100	198	7920	15.573	1966.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	18.91	18.01	4.80	4.73	Shall not be more than 10% by mass
2	19.57	18.75	4.20		
3	18.94	17.96	5.20		

A.E.E

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Lab ID : CP-2022-05-17-10 Date: 08-10-21

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	404	102	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	101	202	
3	401	102	199	
4	402	100	202	
5	403	101	203	
6	404	99	203	
7	401	100	199	
8	400	99	200	
9	400	101	201	
10	400	101	203	
11	399	101	203	
12	403	99	200	
13	404	102	201	
14	402	101	203	
15	402	103	202	
16	401	99	203	
17	402	99	203	
18	404	100	201	
19	400	103	199	
20	401	101	201	
Average of 20	402	101	201	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-05-17-10** **Date: 23/08/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-08-21
Customer ID	:	Concrete for Sump Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete for Sump Wall	M25	16/08/2021	23/08/2021	151.11 X 150.97 X 150.46	22812	8.828	525.0	23.0	22.8
2	Concrete for Sump Wall	M25	16/08/2021	23/08/2021	151.76 X 151.18 X 149.80	22943	8.667	522.6	22.8	
3	Concrete for Sump Wall	M25	16/08/2021	23/08/2021	150.14 X 150.93 X 150.34	22661	8.557	510.9	22.5	

• The results obtained are satisfactory as per standard requirements.

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-17-10 Date: 13/09/2021

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Additional Development works to Telugu School in Chowdeshwari Ward No.02

Agency : Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-09-21

Customer ID : Concrete for Sump Cover Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete for Sump Cover Slab	M25	05/09/2021	12/09/2021	151.21 X 150.21 X 151.74	22713	8.953	535.6	23.6	22.9
2	Concrete for Sump Cover Slab	M25	05/09/2021	12/09/2021	150.83 X 149.73 X 149.90	22583	8.714	500.5	22.2	
3	Concrete for Sump Cover Slab	M25	05/09/2021	12/09/2021	150.87 X 149.18 X 150.18	22507	9.090	517.1	23.0	

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-05-17-10** **Date: 04/10/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-09-21
Customer ID	:	Concrete for Sump Cover Slab
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	03/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete for Sump Cover Slab	M25	05/09/2021	03/10/2021	151.03 X 149.76 X 151.06	22619	8.273	613.1	27.1	27.1
2	Concrete for Sump Cover Slab	M25	05/09/2021	03/10/2021	150.10 X 150.75 X 151.57	22627	9.030	590.5	26.1	
3	Concrete for Sump Cover Slab	M25	05/09/2021	03/10/2021	151.32 X 150.86 X 149.80	22829	8.101	643.0	28.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-17-10 Date: 30/08/2021

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Additional Development works to Telugu School in Chowdeshwari Ward No.02

Agency : Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-21

Customer ID : Plinth Beam

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 29/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam	M25	22/08/2021	29/08/2021	150.27 X 150.99 X 149.37	22689	8.348	536.0	23.6	23.1
2	Plinth Beam	M25	22/08/2021	29/08/2021	150.01 X 151.98 X 150.15	22799	8.891	523.3	23.0	
3	Plinth Beam	M25	22/08/2021	29/08/2021	149.24 X 151.53 X 150.13	22614	8.690	510.7	22.6	

• The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-05-17-10 **Date: 15/09/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-09-21
Customer ID	:	Column Up To Roof Top
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	15/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Up To Roof Top A.E.E	M25	08/09/2021	15/09/2021	150.23 X 151.33 X 151.89	22734	8.160	529.1	23.3	22.6
2	Column Up To Roof Top	M25	08/09/2021	15/09/2021	150.73 X 151.24 X 151.48	22797	8.217	512.9	22.5	
3	Column Up To Roof Top	M25	08/09/2021	15/09/2021	150.44 X 151.27 X 151.48	22756	8.644	503.1	22.1	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-05-17-10 **Date: 06/10/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-09-21
Customer ID	:	Column Up To Roof Top
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Up To Roof Top	M25	08/09/2021	06/10/2021	150.80 X 150.88 X 149.89	22752	8.699	634.8	27.9	27.6
2	Column Up To Roof Top	M25	08/09/2021	06/10/2021	150.12 X 149.90 X 149.09	22503	8.988	596.6	26.5	
3	Column Up To Roof Top	M25	08/09/2021	06/10/2021	151.12 X 149.44 X 149.37	22583	8.638	644.2	28.5	

A.E.E

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/09/2021

Lab ID	:	CP-2022-05-17-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-09-21
Customer ID	:	Lintel
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel	M25	03/09/2021	10/09/2021	151.72 X 150.93 X 151.43	22899	8.606	539.5	23.6	23.1
2	Lintel	M25	03/09/2021	10/09/2021	149.67 X 151.70 X 151.32	22705	8.687	521.4	23.0	
3	Lintel	M25	03/09/2021	10/09/2021	150.84 X 150.15 X 149.27	22650	8.108	514.0	22.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-05-17-10** **Date: 21/10/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-09-21
Customer ID	:	Roof Slab (RMC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Slab (RMC)	M25	23/09/2021	21/10/2021	151.85 X 151.77 X 151.39	23047	9.053	622.9	27.0	27.4
2	Roof Slab (RMC)	M25	23/09/2021	21/10/2021	150.70 X 149.71 X 149.67	22562	8.227	597.5	26.5	
3	Roof Slab (RMC)	M25	23/09/2021	21/10/2021	151.35 X 151.07 X 150.36	22864	8.540	657.7	28.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-17-10 Date: 09/11/2021

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Additional Development works to Telugu School in Chowdeshwari Ward No.02

Agency : Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-11-21

Customer ID : Flooring Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 09/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete AE-2 A.E.E	M15	02/11/2021	09/11/2021	149.77 X 149.49 X 150.75	22389	8.134	295.8	13.2	13.5
2	Flooring Concrete	M15	02/11/2021	09/11/2021	150.44 X 151.34 X 149.13	22767	8.925	313.6	13.8	
3	Flooring Concrete	M15	02/11/2021	09/11/2021	150.14 X 150.94 X 149.02	22662	8.431	309.6	13.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/11/2021

Lab ID	:	CP-2022-05-17-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-11-21
Customer ID	:	Flooring Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete A.E.E	M15	02/11/2021	30/11/2021	151.26 X 150.40 X 150.68	22749	8.658	417.0	18.3	18.5
2	Flooring Concrete	M15	02/11/2021	30/11/2021	151.52 X 151.02 X 150.83	22882	8.259	434.7	19.0	
3	Flooring Concrete	M15	02/11/2021	30/11/2021	151.58 X 150.98 X 150.58	22886	8.998	414.4	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/11/2021

Lab ID	:	CP-2022-05-17-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
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Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-11-21
Customer ID	:	Flooring Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	30/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M15	02/11/2021	30/11/2021	149.95 X 150.98 X 150.76	22640	8.383	409.5	18.1	18.2
2	Flooring Concrete	M15	02/11/2021	30/11/2021	149.48 X 151.22 X 150.34	22605	8.222	418.1	18.5	
3	Flooring Concrete	M15	02/11/2021	30/11/2021	151.15 X 151.16 X 151.26	22847	8.759	413.5	18.1	

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Technical Manager

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CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 30/11/2021

Lab ID	:	CP-2022-05-17-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Additional Development works to Telugu School in Chowdeshwari Ward No.02
Agency	:	Sri.B.B.Umesha, M/S SMLP Asphalts No.1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/34/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-11-21
Customer ID	:	Flooring Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M15	02/11/2021	30/11/2021	149.91 X 151.23 X 151.10	22671	8.878	416.9	18.4	18.4
2	Flooring Concrete	M15	02/11/2021	30/11/2021	150.66 X 151.65 X 149.50	22847	9.005	429.9	18.8	
3	Flooring Concrete	M15	02/11/2021	30/11/2021	151.04 X 149.06 X 151.72	22514	8.760	406.5	18.1	

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